Lucy E Delaney

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Interests

Conceptual understanding of evolutionary principles, evolution-centered teaching of biology, educational & racial equity, for undergraduate education, macroevolution, the evolution of plant breeding systems

Education

Ph.D. candidate, Ecology & Evolutionary Biology *Expected 2022*
University of Illinois at Chicago Chicago, IL
Dissertation: *The Nature of Adaptation and the Epistemology of Natural Selection*

M.A., Molecular & Cellular Biology 2016
Hunter College of the City University of New York New York, NY

B.S., Forensic Molecular Biology, Philosophy 2012
John Jay College of the City University of New York New York, NY

University Teaching

BIOS 220 Mendelian and Molecular Genetics Fall 2019–Summer 2020
Sophomore-level course focusing on Mendelian inheritance patterns and molecular mechanisms of inheritance. Helped managed transition from in-person to online delivery. Responsible for teaching discussion section, creating digital course materials & exams, grading, drop-in hours, and Blackboard administration.

BIOS 331 General Ecology Laboratory Summer 2019
Application of ecological and evolutionary concepts with hands-on experiments and field trips to local natural areas. Responsible for weekly laboratory instruction, drop-in hours, and grading.

BIOS 230 Ecology and Evolution Spring 2019
Sophomore-level course with emphasis on basic ecological systems, ecosystem dynamics, and evolutionary principles. Responsible for weekly office hours, assignment creation, and grading.

BIOS 430 Evolution Fall 2017–Fall 2018
Upper-division, programming-focused course on evolutionary theory and principles. Responsible for weekly drop-in hours & debugging, quiz materials, and grading of programming assignments.

BIOS 120 Biology of Populations and Communities 2016–2017
Introductory biology laboratory course with emphasis on ecological and evolutionary principles. Responsible for twice-weekly laboratory instruction, drop-in hours, and grading.

Teaching Honors and Awards

- **2021** Honorable mention, UIC Graduate Student Excellence in Teaching and Mentoring Award
- **2020** Recipient, Biological Sciences Department Graduate Teaching Award for BIOS 220
- **2018** Recipient, Biological Sciences Department Graduate Teaching Award for BIOS 430

Community Teaching

Course Builder & Trainer UIC Biological Sciences Department 2020–Present
Trained in online instructional design & pedagogy, and software relevant to online teaching & learning. Assisting Biological Sciences Department faculty members and teaching assistants in transitioning their courses online, and managing technical aspects of courses throughout online delivery. Creator and maintainer of the UIC Course Builder Website.

Tutor Nurturing Wisdom Tutoring 2018–2020
Highly-rated individual tutoring for grades 7-12 in test preparation (SAT and high school entrance exams), science, mathematics, and writing.

Substitute Teacher Chicago-area Charter Schools 2015-2016
Substitute teacher for elementary, middle, and high school classes.

Past and Upcoming Presentations

Natural Selection Does Not Come Naturally:
Getting mired in pattern & process and proximate & ultimate causality

- June 2021 *upcoming* at Annual Evolution Conference | Virtual Talk

The Four Causes of Adaptation:
How do students construct biological explanations?

- March 2021 at Midwest Ecology and Evolution Conference | Awarded Best Graduate Talk
- January 2021 at SABER West | Virtual Roundtable

The Phylogenetic Distribution and Frequency of Self-Incompatibility in Fabaceae,
with Ramanauskas, K. & Igić, B.

- July 2021 *upcoming* at Annual Meeting of the Botanical Society of America | Virtual Talk
- July 2018 at Annual Meeting of the Botanical Society of America | Rochester, MN | Poster

Evolutionary Consequences of Plant Mating Systems

- August 2017 at microMORPH Summer Course | Arnold Aborteum, Harvard | Talk

Publications

Delaney, Lucy E. (2012). Nietzsche, nerve stimulation-image connection, and ontology. *John Jay's Finest*, *27*, 99–103.

In preparation

Delaney, Lucy E, Ramanauskas, K., & Igić, B. The phylogenetic distribution and frequency of self-incompatibility in Fabaceae: What do we know?
Delaney, Lucy E & Igić, B. The orchids and their breeding systems.

Skills

- R and RMarkdown
- Technician radio license
- LaTeX and BibTeX
- HTML and CSS
- Shell scripting (novice)
- Adobe Illustrator
- Microsoft Office Suite

Other Awards and Training

- **2020** Participant in the 2020 Chicago R Collaborative Conference
- **2018** Recipient of the Biological Sciences Department Travel Award
- **2018** Reviewer for International Journal of Botany, Oxford Bibliographies
- **2017** Accepted to NSF-funded workshop on Bayesian Analysis of Macroevolutionary Mixtures
- **2017** Recipient of the Biological Sciences Department Travel Award
- **2017** Accepted to microMORPH Plant Anatomy Summer Course at Harvard University
- **2016** General horticulture volunteer at Garfield Park Conservatory

Professional Experience

Forensic Molecular Biologist at NYC Office of Chief Medical Examiner 2012–2015
Examined evidence for the presence of biological fluids, performed serological & DNA analysis techniques, analyzed data & performed statistical analyses, wrote reports, and provided expert scientific testimony in court.

Health Research Intern at NYC Department of Health 2011-2012
Accepted to the Health Research Training Program for a year-long internship with the Bureau of Environmental Disease Prevention. Received training in disease epidemiology, emergency preparedness & response, public health and outreach programs in environmental disease control & prevention, and emerging viral infections.

Field Manager & Administrative Assistant at Working Families Party 2008-2011
Responsible for payroll, managing employees' healthcare coverage, bank deposits, and data entry. Organized informational events for the public, and served as Field Manager for multiple election and fundraising campaigns.